

Appl. No. _____
Docket No. 1581.0840001

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Robert G. Sterne, Esq., Reg. No. 28,912; Edward J. Kessler, Esq., Reg. No. 25,688; Jorge A. Goldstein, Esq., Reg. No. 29,021; Samuel L. Fox, Esq., Reg. No. 30,353; David K.S. Cornwell, Esq., Reg. No. 31,944; Robert W. Esmond, Esq., Reg. No. 32,893; Tracy-Gene G. Durkin, Esq., Reg. No. 32,831; Michele A. Cimbala, Esq., Reg. No. 33,851; Michael B. Ray, Esq., Reg. No. 33,997; Robert E. Sokohl, Esq., Reg. No. 36,013; Eric K. Steffe, Esq., Reg. No. 36,688; and Michael Q. Lee, Esq., Reg. No. 35,239.

I hereby authorize the U.S. attorneys named herein to accept and follow instructions from Mathys & Squire, 100 Gray's Inn Road, London WC1X 8AL, ENGLAND, as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and me. In the event of a change in the persons from whom instructions may be taken, the U.S. attorneys named herein will be so notified.

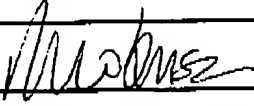
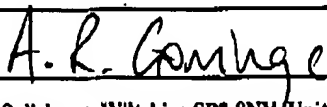
Send Correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 New York Avenue, N.W., Suite 600
Washington, D.C. 20005-3934

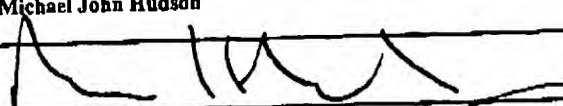
Direct Telephone Calls to:


(202) 371-2600

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor	Andrew Robinson
Signature of sole or first inventor	 Date 22/1/02
Residence	Pirdowne, Gomeldon Hill, Winterbourne Gunner, Salisbury, Wiltshire SP4 6JZ, United Kingdom.
Citizenship	United Kingdom
Post Office Address (As Above)	
Full name of second inventor	Andrew Richard Gorringe
Signature of second inventor	 Date 22/0/02
Residence	8 Berkshire Road, Salisbury, Wiltshire SP2 8NW, United Kingdom.
Citizenship	United Kingdom
Post Office Address (As Above)	

Appl. No. _____
Docket No. 1581.0840001

Full name of third inventor	Michael John Hudson
Signature of third inventor	
Date	22/1/02
Residence	46 Bouverie Avenue, Salisbury, Wiltshire SP2 8DT, United Kingdom
Citizenship	United Kingdom
Post Office Address (As Above)	

Full name of fourth inventor	Philippa Bracegirdle
Signature of fourth inventor	
Date	22/1/02
Residence	27 Fair View Road, Salisbury, Wiltshire, SP1 1JX, United Kingdom
Citizenship	United Kingdom
Post Office Address (As Above)	

Full name of fifth inventor	John Simon Kroll
Signature of fifth inventor	
Date	
Residence	58 Park Town, Oxford, OX2 6SJ, United Kingdom
Citizenship	United Kingdom
Post Office Address (As Above)	

Full name of sixth inventor	Paul Richard Langford
Signature of sixth inventor	
Date	
Residence	5 Newton Road, Oxford OX1 4PT, United Kingdom
Citizenship	United Kingdom
Post Office Address (As Above)	

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Full name of seventh inventor Steven Anthony Rochford Webb	
Signature of seventh inventor	Date
Residence 153 Heytesbury Road, Subiaco, Western Australia 6008, Australia	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of eighth inventor Keith Cartwright	
Signature of eighth inventor	Date
Residence Brobury House, Brobury, Herefordshire HR3 6BS, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of ninth inventor Cliona Anne O'Dwyer	
Signature of ninth inventor	Date
Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland	
Citizenship Irish	
Post Office Address (As Above)	
Full name of tenth inventor Karen Margaret Reddin	
Signature of tenth inventor <i>K.M. Reddin</i>	Date <i>22/1/02</i>
Residence "Whisgills", Whitbread Road, Salisbury, Wiltshire SP2 9PE, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	



Combined Declaration for Patent Application and Power of Attorney with Delegation

Docket Number: 1581.0840001

I, the below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled "Neisserial vaccine compositions and methods", the specification of which is attached hereto unless the following box is checked:

- ☐ was filed on _____;
as United States Application Number or PCT International Application Number _____; and
was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)	Priority Claimed
<u>9904028.9</u> (Application No.)	<u>United Kingdom</u> (Country)
<u>22 February 1999</u> (Day/Month/Year Filed)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<u>9922561.7</u> (Application No.)	<u>United Kingdom</u> (Country)
<u>23 September 1999</u> (Day/Month/Year Filed)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

(Application No.) (Filing Date)

(Application No.) (Filing Date)

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/GB00/000624 22 February 2000 Pending
 (Application No.) (Filing Date) (Status - patented, pending, abandoned)

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Send Correspondence to: **STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.**
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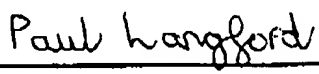
Full name of sole or first inventor	Andrew Robinson
Signature of sole or first inventor	Date
Residence Firdowne, Gomeldon Hill, Winterbourne Gunner, Salisbury, Wiltshire SP4 6JZ, United Kingdom.	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of second inventor	Andrew Richard Gorringe
Signature of second inventor	Date
Residence 8 Berkshire Road, Salisbury, Wiltshire SP2 8NY, United Kingdom.	
Citizenship United Kingdom	
Post Office Address (As Above)	

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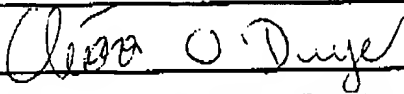
Full name of third inventor Michael John Hudson	
Signature of third inventor	Date
Residence 46 Bouverie Avenue, Salisbury, Wiltshire SP2 8DT, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	

Full name of fourth inventor Philippa Bracegirdle	
Signature of fourth inventor	Date
Residence 27 Fair View Road, Salisbury, Wiltshire, SP1 1JX, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	

Full name of fifth inventor John Simon Kroll	
Signature of fifth inventor 	Date 25/2/02
Residence 58 Park Town, Oxford, OX2 6SJ, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	

Full name of sixth inventor Paul Richard Langford	
Signature of sixth inventor 	Date 25/2/02
Residence 5 Newton Road, Oxford OX1 4PT, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	

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Full name of seventh inventor Steven Anthony Rochford Webb	
Signature of seventh inventor	Date
Residence 153 Heytesbury Road, Subiaco, Western Australia 6008, Australia	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of eighth inventor Keith Cartwright	
Signature of eighth inventor	Date
Residence Brobury House, Brobury, Herefordshire HR3 6BS, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of ninth inventor Cliona Anne O'Dwyer	
Signature of ninth inventor 	Date 4/3/02
Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland	
Citizenship Irish	
Post Office Address (As Above)	
Full name of tenth inventor Karen Margaret Reddin	
Signature of tenth inventor	Date
Residence "Whisgils", Whitbread Road, Salisbury, Wiltshire SP2 9PE, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	



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☐ was filed on _____;
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Priority Claimed

☒ Yes ☐ No☒ Yes ☐ No

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(Filing Date)

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Pending
(Status - patented, pending, abandoned)

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Signature of sole or first inventor		Date
Residence Fildowne, Gomeldon Hill, Winterbourne Gunner, Salisbury, Wiltshire SP4 6JZ, United Kingdom.		
Citizenship United Kingdom		
Post Office Address (As Above)		
Full name of second inventor	Andrew Richard Gorringe	
Signature of second inventor		Date
Residence 8 Berkshire Road, Salisbury, Wiltshire SP2 8NY, United Kingdom.		
Citizenship United Kingdom		
Post Office Address (As Above)		

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Full name of third inventor	Michael John Hudson
Signature of third inventor	Date
Residence	46 Bouverie Avenue, Salisbury, Wiltshire SP2 8DT, United Kingdom
Citizenship	United Kingdom
Post Office Address (As Above)	

Full name of fourth inventor	Philipps Bracegirdle
Signature of fourth inventor	Date
Residence	27 Fair View Road, Salisbury, Wiltshire, SP1 1JX, United Kingdom
Citizenship	United Kingdom
Post Office Address (As Above)	

Full name of fifth inventor	John Simon Kroll
Signature of fifth inventor	Date
Residence	58 Park Town, Oxford, OX2 6SJ, United Kingdom
Citizenship	United Kingdom
Post Office Address (As Above)	

Full name of sixth inventor	Paul Richard Langford
Signature of sixth inventor	Date
Residence	5 Newton Road, Oxford OX1 4PT, United Kingdom
Citizenship	United Kingdom
Post Office Address (As Above)	

Appl. No. _____
Docket No. 1581.0840001

Full name of seventh inventor Steven Anthony Rochford Webb	
Signature of seventh inventor <i>SAR Webb</i>	Date <u>14/3/02</u>
Residence 153 Heytesbury Road, Subiaco, Western Australia 6008, Australia	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of eighth inventor Kelth Cartwright	
Signature of eighth inventor	Date
Residence Brobury House, Brobury, Herefordshire HR3 6BS, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of ninth inventor Cliona Anne O'Dwyer	
Signature of ninth inventor	Date
Residence "Ealga" Cushmelmore, Furbo, County Galway, Republic of Ireland	
Citizenship Irish	
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Full name of tenth inventor Karen Margaret Reddin	
Signature of tenth inventor	Date
Residence "Whisgils", Whitbread Road, Salisbury, Wiltshire SP2 9PE, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	

HW/PD/CB/DW/ED/MS/JP/MS/10/1/USC/DEC
EKG/ Rev. 02/01 msc

(Supply similar information and signature for subsequent joint inventors if any)



Combined Declaration for Patent Application and Power of Attorney with Delegation

Docket Number: 1581.0840001

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Prior Foreign Application(s)

Priority Claimed

9904028.9
(Application No.)

United Kingdom
(Country)

22 February 1999
(Day/Month/Year Filed)

☒ Yes ☐ No

9922561.7
(Application No.)

United Kingdom
(Country)

23 September 1999
(Day/Month/Year Filed)

☒ Yes ☐ No

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(Application No.)

(Filing Date)

(Application No.)

(Filing Date)

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PCT/GB00/000624
(Application No.)

22 February 2000
(Filing Date)

Pending
(Status - patented, pending, abandoned)

(Application No.)

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Full name of sole or first inventor	Andrew Robinson
Signature of sole or first inventor	Date
Residence Firdowne, Gomeldon Hill, Winterbourne Gunner, Salisbury, Wiltshire SP4 6JZ, United Kingdom.	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of second inventor	Andrew Richard Gorringer
Signature of second inventor	Date
Residence 8 Berkshire Road, Salisbury, Wiltshire SP2 8NY, United Kingdom.	
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Signature of third inventor	Date
Residence	46 Bouverie Avenue, Salisbury, Wiltshire SP2 8DT, United Kingdom
Citizenship	United Kingdom
Post Office Address (As Above)	

Full name of fourth inventor	Philippa Bracegirdle
Signature of fourth inventor	Date
Residence	27 Fair View Road, Salisbury, Wiltshire, SP1 1JX, United Kingdom
Citizenship	United Kingdom
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Full name of fifth inventor	John Simon Kroll
Signature of fifth inventor	Date
Residence	58 Park Town, Oxford, OX2 6SJ, United Kingdom
Citizenship	United Kingdom
Post Office Address (As Above)	

Full name of sixth inventor	Paul Richard Langford
Signature of sixth inventor	Date
Residence	5 Newton Road, Oxford OX1 4PT, United Kingdom
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Residence 153 Heytesbury Road, Subiaco, Western Australia 6008, Australia	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of eighth inventor Keith Cartwright	
Signature of eighth inventor <i>Kav. Cartwright</i>	Date <i>29.01.02</i>
Residence Brobury House, Brobury, Herefordshire HR3 6BS, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	
Full name of ninth inventor Cliona Anne O'Dwyer	
Signature of ninth inventor	Date
Residence "Ealga" Cushmeigmore, Furbo, County Galway, Republic of Ireland	
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Full name of tenth inventor Karen Margaret Reddin	
Signature of tenth inventor	Date
Residence "Whitgills", Whitbread Road, Salisbury, Wiltshire SP2 9PE, United Kingdom	
Citizenship United Kingdom	
Post Office Address (As Above)	

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\$KOF Rev. 02/98 mac

(Supply similar information and signature for subsequent joint inventors, if any)

Certificate Under 37 C.F.R. § 3.73(b)

Applicant/Patent Owner: Andrew Robinson, Andrew Richard Gorringer, Michael John Hudson, Philippa Bracegirdle, and Karen Reddin

Application No./Patent No.: _____ (to be assigned) _____ Filed/Issue Date: herewith

Entitled: Neisserial vaccine compositions and methods

Microbiological Research Authority, a government agency

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☐ the assignee of the entire right, title, and interest, or
2. ☒ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

A. ☒ An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE:] A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

22 JANUARY 2002

Date: _____

Name: J M HANKE

Title: SECRETARY MRA, CAME

Signature: [Signature]

**DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION**

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Andrew Robinson, Andrew Richard Gorrings, Michael John Hudson, Philippa Bracegirdle and Karen Margaret Reddin, the undersigned inventor(s) hereby sell(s) and assign(s) to Microbiological Research Authority, CAMR Porton Down, Salisbury, Wiltshire SP4 0JG, Great Britain (the Assignee) his/her entire right, title and interest, including the right to sue for and collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world,

(a) in the invention(s) known as Neisserial vaccine compositions and methods for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 22 JANUARY 2002 (also known as United States Application No. 09/942 563 filed 8/11/01), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.






The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

**DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION**

*RUO
Reg. No.
32,893*

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: <u>22 JANUARY 2002</u>	Signature of Inventor: <u></u> Andrew Robinson
Date: <u>22 JANUARY 2002</u>	Signature of Inventor: <u></u> Andrew Richard Goringe
Date: <u>22 JANUARY 2002</u>	Signature of Inventor: <u></u> Michael John Hudson
Date: <u>22 JANUARY 2002</u>	Signature of Inventor: <u></u> Philippa Bracegirdle
Date: <u>22 JANUARY 2002</u>	Signature of Inventor: <u></u> Karen Margaret Reddin

POWER OF ATTORNEY FROM ASSIGNEE WITH DELEGATION

Microbiological Research Authority, having a principal place of business at Centre for Applied Microbiology and Research (CAMR), Porton Down, Salisbury, SP4 0JG, United Kingdom, is assignee of the entire right, title, and interest for the United States of America (as defined in 35 U.S.C. §100), by reason of an Assignment to the Assignee executed on 22 JANUARY 2002 of an invention known as Neisserial vaccine compositions and methods (Attorney Docket No. 1581.00840001), which is disclosed and claimed in a patent application of the same title by the inventor(s) Andrew Robinson, Andrew Richard Gorringe, Michael John Hudson, Philippa Bracegirdle, John Simon Kroll, Paul Richard Langford, Steven Anthony Rochford Webb, Keith Cartwright, Cliona O'Dwyer and Karen Margaret Reddin (said application filed on Aug. 31, 2001 at the U.S. Patent and Trademark Office, having Application Number 09/142,583).

The Assignee hereby appoints the following U.S. attorneys to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith: Robert Greene Sterne, Registration No. 28,912; Edward J. Kessler, Registration No. 25,688; Jorge A. Goldstein, Registration No. 29,021; Samuel L. Fox, Registration No. 30,353; David K.S. Cornwell, Registration No. 31,944; Robert W. Esmond, Registration No. 32,893; Tracy-Gene G. Durkin, Registration No. 32,831; Michele A. Cimbala, Registration No. 33,851; Michael B. Ray, Registration No. 33,997; Robert E. Sokohl, Registration No. 36,013; Eric K. Steffe, Registration No. 36,688; Michael Q. Lee, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203. The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The Assignee hereby authorizes the U.S. attorneys named herein to accept and follow instructions from Mathys & Squire, 100 Gray's Inn Road, London WC1X 8AL, Great Britain as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and the Assignee. In the event of a change in the persons from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the Assignee.

Send correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934
U.S.A.

Direct phone calls to 202-371-2600.

FOR: Microbiological Research Authority
SIGNATURE: [Signature]
BY: JM HARKER
TITLE: Secretary MRA, CAMR
DATE: 22 JANUARY 2002

RUB
Reg No.
32,893

Certificate Under 37 C.F.R. § 3.73(b)

Applicant/Patent Owner: John Simon Kroll, Paul Richard Langford, Cliona Anne O'Dwyer and Steven Anthony Rochford Webb

Application No./Patent No.: _____ (to be assigned) _____ Filed/Issue Date: herewith

Entitled: Neisserial vaccine compositions and methods

Imperial College Innovations Ltd, a Corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☐ the assignee of the entire right, title, and interest, or
2. ☒ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☒ An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From: _____ To: _____
 The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
 The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
 The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: 18 MARCH 2002

Name: [Signature] S. SCARLE

Title: SENIOR MANAGING DIRECTOR

Signature: [Signature]

**DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION**

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): John Simon Kroll, Paul Richard Langford, Steven Anthony Rochford Webb and Cliona Anne O'Dwyer, the undersigned inventor(s) hereby sell(s) and assign(s) to Imperial College Innovations Ltd, 47 Prince's Gate, London SW7 2QA, Great Britain (the Assignee) his/her entire right, title and interest, including the right to sue for and collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world,

(a) in the invention(s) known as Neisserial vaccine compositions and methods for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 25 JANUARY & 4TH & 14TH MARCH 2002 (also known as United States Application No. 09/942,583, filed Aug 31, 2001), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.


**DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION**

*RUB
Reg No.
32,893*

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

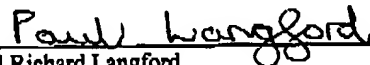
IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: 25 JANUARY 2002

Signature of Inventor: 

John Simon Kroll

Date: 25 JANUARY 2002

Signature of Inventor: 

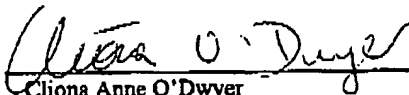
Paul Richard Langford

Date: _____

Signature of Inventor: _____

Steven Anthony Rochford Webb

Date: 14 MARCH 2002

Signature of Inventor: 

Cliona Anne O'Dwyer

ASSIGNMENT

DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): John Simon Kroll, Paul Richard Langford, Steven Anthony Rochford Webb and Cliona Anne O'Dwyer, the undersigned inventor(s) hereby sell(s) and assign(s) to Imperial College Innovations Ltd, 47 Prince's Gate, London SW7 2QA, Great Britain (the Assignee) his/her entire right, title and interest, including the right to sue for and collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world,

(a) in the invention(s) known as Neisserial vaccine compositions and methods for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 14 MARCH 2002 (also known as United States Application No. 09/942583, filed Aug 31, 2001), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION

RWS
Reg. No.
32,893

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert B. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: _____ Signature of Inventor: _____
John Simon Kroll

Date: _____ Signature of Inventor: _____
Paul Richard Langford

Date: 14 MARCH 2002 Signature of Inventor: SAR Webb
Steven Anthony Rochford Webb

Date: _____ Signature of Inventor: _____
Cliona Anne O'Dwyer

POWER OF ATTORNEY FROM ASSIGNEE WITH DELEGATION

Reg. No. 32,853

Imperial College Innovations Ltd, having a principal place of business at 47 Prince's Gate, London SW7 2QA, United Kingdom, is assignee of the entire right, title, and interest for the United States of America (as defined in 35 U.S.C. §100), by reason of an Assignment to the Assignee executed on 25 JANUARY & 14 MARCH 2002 of an invention known as Neisserial vaccine compositions and methods (Attorney Docket No. 1581.00840001), which is disclosed and claimed in a patent application of the same title by the inventor(s) Andrew Robinson, Andrew Richard Gorrington, Michael John Hudson, Philippa Bracegirdle, John Simon Kroll, Paul Richard Langford, Steven Anthony Rochford Webb, Keith Cartwright, Cliona O'Dwyer and Karen Margaret Reddin (said application filed on Aug 31, 2001 at the U.S. Patent and Trademark Office, having Application Number 01/942,583).

The Assignee hereby appoints the following U.S. attorneys to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith: Robert Greene Sterne, Registration No. 28,912; Edward J. Kessler, Registration No. 25,688; Jorge A. Goldstein, Registration No. 29,021; Samuel L. Fox, Registration No. 30,353; David K.S. Cornwell, Registration No. 31,944; Robert W. Esmond, Registration No. 32,893; Tracy-Gene G. Durkin, Registration No. 32,831; Michele A. Cimbala, Registration No. 33,851; Michael B. Ray, Registration No. 33,997; Robert E. Sokohl, Registration No. 36,013; Eric K. Steffe, Registration No. 36,688; Michael Q. Lee, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203. The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The Assignee hereby authorizes the U.S. attorneys named herein to accept and follow instructions from Mathys & Squire, 100 Gray's Inn Road, London WC1X 8AL, Great Britain as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and the Assignee. In the event of a change in the persons from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the Assignee.

Send correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934
U.S.A.

Direct phone calls to 202-371-2600.

FOR: Imperial College Innovations Ltd

SIGNATURE: 

BY: SUSAN SEARE

TITLE: MANAGING DIRECTOR

DATE: 18 MARCH 2002

Certificate Under 37 C.F.R. § 3.73(b)

Applicant/Patent Owner: Keith CartwrightApplication No./Patent No.: _____ (to be assigned) _____ Filed/Issue Date: herewithEntitled: Neisserial vaccine compositions and methodsPublic Health Laboratory Service Board, a Government agency

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☐ the assignee of the entire right, title, and interest, or
2. ☒ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☒ An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: 30 JANUARY 2002Name: KEITH SANDERSTitle: DEPUTY DIRECTOR OF THE SERVICESignature: 

DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Keith Cartwright, the undersigned inventor(s) hereby sell(s) and assign(s) to Public Health Laboratory Service Board, 61 Colindale Avenue, London NW9 5DF, Great Britain (the Assignee) his/her entire right, title and interest, including the right to sue for and collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world,

(a) in the invention(s) known as Neisserial vaccine compositions and methods for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 29 JANUARY 2002 (also known as United States Application No. 09/942,583, filed Aug 31, 2001), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION

RUB
Reg. No.
32,893

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: 29 JANUARY 2002

Signature of Inventor: _____

KAV. Cartwright

Keith Cartwright

POWER OF ATTORNEY FROM ASSIGNEE WITH DELEGATION

*Att
Reg. No.
32,893*

Public Health Laboratory Service Board, having a principal place of business at 61 Colindale Avenue, London NW9 5DF, United Kingdom, is assignee of the entire right, title, and interest for the United States of America (as defined in 35 U.S.C. §100), by reason of an Assignment to the Assignee executed on 29 JANUARY 2002 of an invention known as Neisserial vaccine compositions and methods (Attorney Docket No. 1581.00840001), which is disclosed and claimed in a patent application of the same title by the inventor(s) Andrew Robinson, Andrew Richard Gorrings, Michael John Hudson, Philippa Bracegirdle, John Simon Kroll, Paul Richard Langford, Steven Anthony Rochford Webb, Keith Cartwright, Cliona O'Dwyer and Karen Margaret Reddin (said application filed on Aug 31, 2001 at the U.S. Patent and Trademark Office, having Application Number 09/943,583).

The Assignee hereby appoints the following U.S. attorneys to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith: Robert Greene Sterne, Registration No. 28,912; Edward J. Kessler, Registration No. 25,688; Jorge A. Goldstein, Registration No. 29,021; Samuel L. Fox, Registration No. 30,353; David K.S. Cornwell, Registration No. 31,944; Robert W. Esmond, Registration No. 32,893; Tracy-Gene G. Durkin, Registration No. 32,831; Michele A. Cimbala, Registration No. 33,851; Michael B. Ray, Registration No. 33,997; Robert E. Sokohl, Registration No. 36,013; Eric K. Steffe, Registration No. 36,688; Michael Q. Lee, Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203. The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The Assignee hereby authorizes the U.S. attorneys named herein to accept and follow instructions from Mathys & Squire, 100 Gray's Inn Road, London WC1X 8AL, Great Britain as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and the Assignee. In the event of a change in the persons from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the Assignee.

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FOR: Public Health Laboratory Service Board

SIGNATURE: 

BY: KEITH CARTWRIGHT

TITLE: DEPUTY DIRECTOR OF THE SERVICE

DATE: 30 JANUARY 2002